

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

ATL Applications INVENTORY SHEET WORK ORDER # 0909559A

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a. ATL Sample Results Form b. Target Compound Raw Data -Internal Standard Area and Retention Time Summary (If Applicable) -Surrogate Recovery Summary (If Applicable) -Chromatogram(s) and Ion Profiles (If Applicable) 3. QC Results and Raw Data a. Method Blank (Results + Raw Data) b. Surrogate Recovery Summary Form (If Applicable) c. Internal Standard Summary Form (If Applicable) d. Duplicate Results Summary Sheet e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data) f. Initial Calibration Data (Summary Sheet + Raw Data) g. MDL Study (If Applicable) h. Continuing Calibration Verification Data i. Second Source LCS (Summary + Raw Data) j. Extraction Logs k. Instrument Run Logs/Software Verification l. GC/MS Tune (Results + Raw Data) d. GC/MS Tune (Results + Raw Data) d. Shipping/Receiving Documents: a. Login Receipt Summary Sheet b. Chain-of-Custody Records c. Sample Log-In Sheet d. Misc. Shipping/Receiving Records (list individual records) Sample Receipt Discrepancy Report f. Other Records (describe or list) a. Manual Spectral Defense b. Manual Intergrations c. Manual Calculations d. Canister Dilution Factors e. Laboratory Corrective Action Request f. CAS Number Reference g. Variance Table h. Canister Certification i. Data Review Check Sheet Completed by: **Manual Calculations** **Cartification Logal Review Check Sheet** **Cartification Logal Review Check Sheet** **Completed by: **Manual Calculations** **Cartification Logal Review Control Logal Review Control Logal Review Check Sheet** **Completed by: **Manual Calculations** **Cartification Logal Review Control Loga		THE RESERVE OF THE PERSON NAMED IN COLUMN	COMPANY OF SAME OF SAME
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			(Date)



WORK ORDER #: 0909559A

Work Order Summary

CLIENT:

Mr. Taeko Minegishi

BILL TO:

Accounts Payable

Environmental Health & Engineering,

O.

Environmental Health & Engineering,

Inc

Inc

117 Fourth Avenue Needham, MA 02494 117 Fourth Avenue Needham, MA 02494

PHONE:

800-825-5343

P.O. # 16512

FAX:

781-247-4305

DATE RECEIVED:

09/25/2009

PROJECT #

16512

DATE COMPLETED:

10/14/2009

CONTACT:

Ausha Scott

FRACTION#	NAME	TEST
01A	103148	ATL Applications
02A	103149	ATL Applications
03A	103150	ATL Applications
04A	103152	ATL Applications
05A	103153	ATL Applications
06A	103177	ATL Applications
07A	103178	ATL Applications
07AA	103178 Lab Duplicate	ATL Applications
08A	103179	ATL Applications
09A	103180	ATL Applications
10A	103181	ATL Applications
11A	103182	ATL Applications
12A	103206	ATL Applications
12AA	103206 Lab Duplicate	ATL Applications
13A	103207	ATL Applications
14A	103208	ATL Applications
15A	103209	ATL Applications
16A	Lab Blank	ATL Applications

Continued on next page



WORK ORDER #: 0909559A

Work Order Summary

CLIENT:

Mr. Taeko Minegishi

BILL TO:

Accounts Payable

Environmental Health & Engineering,

Environmental Health & Engineering,

Inc.

117 Fourth Avenue Needham, MA 02494 117 Fourth Avenue

Needham, MA 02494

PHONE:

800-825-5343

P.O. #

16512

FAX:

781-247-4305

PROJECT#

16512

DATE RECEIVED:

09/25/2009

CONTACT:

Ausha Scott

DATE COMPLETED:

10/14/2009

FRACTION #

NAME

TEST

16B

Lab Blank

ATL Applications ATL Applications

17A

CCV

CERTIFIED BY:

Linda d. Fruman

10/14/09

Laboratory Director



LABORATORY NARRATIVE Hydrogen Sulfide by Radiello 170 Environmental Health & Engineering, Inc. Workorder# 0909559A

Fifteen Radiello 170 (H2S) samples were received on September 25, 2009. The procedure involves adsorption of H2S by zinc acetate to form zinc sulfide. The sulfide is then recovered by extraction with water and addition of ferric chloride in a strongly acidic solution to produce methylene blue. Methylene blue absorbance is then measured at 665 nm using a spectrophotometer. Results are reported in uG and uG/m3.

Sampling rate of 69 mL/min for H2S was provided by the manufacturer.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Results were calculated based on 25 deg C without temperature correction. The actual exposure time was used to calculate sample concentrations and reporting limits.

An exposure time of 20160 minutes was used for the QC samples.

All media used for the sampling were supplied by the client. Blank subtraction was not performed on the sample results since the media used for Method Blanks may be from a different lot than the media used for the samples.

The % RPD for the duplicate analysis of samples 103178 and 103206 is at 25% and 16% respectively.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.
- N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Sample Results and Raw Data

ATL Application # 59 for RAD 170 (Hydrogen Sulfide) AIR TOXICS LTD.

Spectrophotometer

%Rec	%I	054		8	40/4/2000		00005500 170	
N	8	0.54	0.80	1.00	10/1/2009	N	0909559A-16B	Method Blank
ND	8	0.54	0.80	1.00	10/1/2009	*	0909559A-16A	Method Blank
22	3.0	0.58	0.80	1.00	10/1/2009	9/21/2009	0909559A-15A	103209
14	1.9	0.58	0.80	1.00	10/1/2009	9/21/2009	0909559A-14A	103208
1.9	2.6	0.58	0.80	1.00 ·	10/1/2009	9/21/2009	0909559A-13A	103207
2.5	3.4	0.58	0.80	1.00	10/1/2009	9/21/2009	0909559A-12AA	103206 Lab Duplicate
21	2.9	0.58	0.80	1.00	10/1/2009	9/21/2009	0909559A-12A	103206
ND	8	0.54	0.80	1.00	10/1/2009	¥	0909559A-11A	103182
0.96	1.3	0.58	0.80	1.00	10/1/2009	9/21/2009	0909559A-10A	103181
1	1.5	0.58	0.80	1.00	10/1/2009	9/21/2009	0909559A-09A	103180
1.6	22	0.58	0.80	1.00	10/1/2009	9/21/2009	0909559A-08A	103179
2.0	2.7	0.58	0.80	1.00	10/1/2009	9/21/2009	0909559A-07AA	103178 Lab Duplicate
1.6	21	0.58	0.80	1.00	10/1/2009	9/21/2009	0909559A-07A	103178
1	1.5	0.58	0.80	1.00	10/1/2009	9/21/2009	0909559A-06A	103177
B	8	0.54	0.80	1.00	10/1/2009	₩	0909559A-05A	103153
0.74	2	0.54	0.80	1.00	10/1/2009	9/21/2009	0909559A-04A	103152
8	8	0.54	0.80	1.00	10/1/2009	9/21/2009	0909559A-03A	103150
8	B	0.54	0.80	1.00	10/1/2009	9/21/2009	0909559A-02A	103149
0.62	0.92	0.54	0.80	1.00	10/1/2009	9/21/2009	0909559A-01A	103148
(ug/m3)	(gu)	(ug/m3)	(ug)	Factor	Date	Date	Sample I.D.	Sample LD.

COMMENTS: 1. NA=Not Applicable
2. ND=Not Detected
3. Exposure time of 20160 minutes was assumed for the QC samples.
4. Background subtraction not performed.

Verified: HH and AW on 9/4/09

nding Bata (ng/anh min)									C IIICIAC COMPCISION II CHI	
Sample of the Parties	0.09	0.096 Typically0.096 for H2S	Ę						Californ HOC	
Sampling T (deg C)	2	25 Typically 25				(Abs-Y-int)xDF	Conclue/ml)xVol (ml)	SCH WW. (epillis an) June	Conc (1:0) x 1000	
Volume (ml.)	10.	10.5 Typically 10.5 for H2S	22			Slope		MW Sulfide	Q x Duration	24.45
Date of Analysis:	F007/T/0T	•								
Corrected Q	0.096	Takes into account temp	t temp						T Corrected, no Blank correction	nk correction
LabSampleID	Client	Date of Collection	Abs	Duration (min)	무	Conc (ug/mL) of sulfide	Conc (ug) of sulfide	Conc (ug) of HZS	Conc (ppb) of HZS	Conc (ug/m3) of H2S
OIA .	103148	9/21/2009	0.108	20160	16	0.082485068	0.866093219	0.920429969	0.448	0.624
02A	103149	9/21/2009	0.093	20160	18	0.068534723	0.719614595	0.764761604	0.377	0518
03A	103150	9/21/2009	0.084	20160	18	0.060164516	0.631727421	0.671360585	0.326	0.455
O4A	103152	9/21/2009	0125	20160	5	0.09829546	1.032102326	1.096854115	0.533	0743
85A	103153	\$	0.015	20160	16	-0.004007071	-0.042074248	-0.044713892	-0.022	DEOUT-
06A	103177	9/21/2009	0.168	18720	100	0.138286449	1.452007714	1.543103427	0.808	1126
07A	103178	9/21/2009	0.226	18720	1.00	0.192227783	2.018391725	2145021103	1.123	
07AA 103	103178 Lab Duplicate	9/21/2009	0.279	18720	100	0.241519003	2.535949529	2.695049325	1.411	1967
08A	103179	9/21/2009	0.233	18720	100	0.198737944	2.086748416	2.21766634	1.161	1619
09A	103180	9/21/2009	2363	18720	16	0.13549638	1.422711989	1.511969754	0.792	1104
104	103181	9/21/2009	0.146	18720	100	0.117825943	1237172399	1.314789826	0.688	0.960
W	103182	\$	0.019	20160	100	-0.000286979	-0.003013281	-0.003202328	-0.002	-0.002
124	103206	9/21/2009	2	18720	100	0.261049486	2.741019602	2.912985035	1.525	2136
	103206 Lab Duplicate	9/21/2009	0.346	18720	100	0.303830544	3.190220715	3.39036802	1775	2475
13A	103207	9/21/2009	0272	18720	100	0.235008842	2.467592838	2.672404088	1.373	1914
144	103208	9/21/2009	2	18720	100	0.168047185	1.764495444	1.875195938	0.982	1389
Ş	103209	9/21/2009	1 <u>E</u> 0	18720	100	0.270349716	2.838672018	3.016763945	1.580	2202
					100	-0.017957416	-0.188552871	-0.200382256	#DIV/0!	#DIV/0i
					1.00	-0.017957416	-0.188552871	-0.200382256	#DIV/0!	io/vio#
					1.00	-0.017957416	-0.188552871	-0.200382256	#DIV/0!	#DIV/0i
					1.00	-0.017957416	-0.188552871	-0.200382256	#DIV/0!	#DIV/DI
					1.00	-0.017957416	-0.188552871	-0.200382256	#DIV/0!	#DIV/OI
	Method Blank	8	0.013	20160	100	-0.005867117	-0.061604731	-0.065469674	-0.032	-0.044
	Method Blank	8	0.011	20160	100	-0.007727163	-0.081135214	-0.086225456	-0.042	-0.058
27A	ςQ	N	0.329	20160	6	0.288020153	3.024211608	3.213943874	1563	2178
15A 15A 17A	103209 103209 Method Blank Method Blank CCV	9/21/2009 NA NA	0.001 0.001 0.001 0.001	18720 20160 20160 20160		0.270349716 -0.017957416 -0.017957416 -0.017957416 -0.017957416 -0.017957416 -0.017957416 -0.005867117 -0.007727163	2.838672018 -0.188552871 -0.188552871 -0.188552871 -0.188552871 -0.188552871 -0.061604731 -0.061135214 3.024211608	3.015763945 -0.200382256 -0.200382256 -0.200382256 -0.200382256 -0.200382256 -0.200382256 -0.200382256 -0.200382256 -0.20038256	# # # # # # # # # # # # # # # # # # #	563 263 263 263 263
					Lw	-0.01/35/4Ib	1/875588170-	-UZWBWZD-	#DIV/0!	
	Method Blank	¥	0.013	20160	16	-0.005867117	-0.061604731	-0.065469674	-0.032	5
	Method Blank	8	0011	SHIPC CAMPC	3	5317C7700 C	0.001136310	0.000	0.000	
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17A	ξ	N	0.329	20160	16	0.288020153	3.024211608	3.213943874	1563	2178
					William Control of the Control of th					SERVICE OF SEP-96, SHOW SERVICE SERVIC

	ND %Rec						3
			0541	0.39	0.798966249	0.752	0.072
		ND	1850	0.39	0.798966249	0.752	0.072
	#DIV/0!	8	#DIV/DI	#DIV/0!	0.798966249	0.752	0.072
	#DIV/O!	ND	#DIV/OI	#DIV/0!	0.798966249	0.752	0.072
	#DIV/O!	ND	#DIV/0!	#DIV/0!	0.798966249	0.752	0.072
	#DIV/O!	8	#DIV/OI	#DIV/O!	0.798966249	0.752	0.072
	#DIV/O!	N	#DIV/0!	#DIV/0!	0.798966249	0.752	0.072
	2.201832856	3.016763945	0588	0.42	0.798966249	0.752	0.072
	1.368641399	1.875195938	0583	0.42	0.798966249	0.752	0.072
	1.91400308	2.622404088	0.583	0.42	0.798966249	0.752	0.072
	2.474513696	3.39036802	0.583	0.42	0.798966249	0.752	0.072
	2.126088178	2.912985035	0.583	0.42	0.798966249	0.752	0.072
	NO	ND	0541	0.39	0.798966249	0.752	0.072
	0.959620139	1.314789826	0.583	0.42	0.798966249	0.752	0.072
	1.103535027	1.511969754	0.583	0.42	0.798966249	0.752	0.072
	1.618598836	2.21766634	0583	0.42	0.798966249	0.752	0.072
	1.967024354	2.695049325	0.583	0.42	0.798966249	0.752	0.072
	1.565577562	2.145021103	0583	0.42	0.798966249	0.752	0.072
	1.12625843	1.543103427	0.583	0.42	0.798966249	0.752	0.072
	ND	Z	0.541	0.39	0.798966249	0.752	0.072
0.338	0.743373722	1.096854115	0.541	0.39	0.798966249	0.752	0.072
		ND	0.541	0.39	0.798966249	0.752	0.072
0.0716 0.086 Y-int	N		0.541	0.39	0.798966249	0.752	0.072
0	0.623805337	0.920429969	0541	0.39	0.798966249	0.752	0.072
ug/ml of suffide absorbance	Result (ug/m3) ug/ H2S %Rec sult	Result (ug) H2S	RL (ug/m3)	RL (ppb) of HZS	RL (ug) of HZS	RL (ug) of suifide	RL(ug/mi) of sulfide
	ank correction	T Corrected, no Blank correction					
and a family missing to the second se	»		24.45	Q x Duration	MW Suifide	100 Miles	
Calibration Data 10/1/2009 Linear Re	G		wm xdqq	RL (ug) x 1000	RL (ug sulfide) *MW H2S	RL(ug/mL)xVol (mL)	Low PointxDF
Calibration Date				Sulfide to H2S			
				Q includes conversion from			

QC Results and Raw Data

Spectrophotometer Logbook

@Air Toxics Ltd.

Logbook#: 1875

Work Order: 0909559 A

Date: 10/01/09

Method: Rad 170

Analyst: M. Skidmore

Wavelength: 665 nm

Standa	ard ID	Concentration	ABS
Level 1 1858	-70 - E	0.0716 mg/m2	0,086
Level 2	- D	0,143 mg/ml	0,169
Level 3	- C	0,286 Mg/ML	0,338
Level 4	-B	0,572 Mi/ML	0,644
Level 5	/ -A	1.145 mg/ml	1,244
ICV 1858	-71	0,286 ug/ml	0.324

r =	0,999	76
m =	1.07	5
b = _	0,01	7

ICV % Recovery = 100

	Fraction	Dilution	ABS	Sample ID	Sample Volume	Comments
	014	1,00	0,108	103148	10,5 mL	
	02/4		0.093	103149		
	03A		0,084	103150		
	O4A		0,125	103152		
	05A		0,015	103153		
	06 A		0.168	103177		
	07A		0,226	103 178		
	OTAA		0,279	103178		
	08A		0,233	103179		
	4120		0,165	103180		
	104		0.146	103181		
	11/4		0,019	103182		
	12A		0.300	103206		
	12AA		0.346	103206		
	13A	li .	0,272	103207		
	IHA		0,200	103208		
	15A		0.310	103209		
	BIK		0,013	NA		101:09075
	13/16		0.011			L.
US	COTO	35	0.165			0,183 mg/ml 0,286 mg/ml
W	LESC		0,329	\ \	1	0,286 MB/ML
				MJS	10/2/09	

Procedure:

Miles III

10/2/09

Spectrophotometer Standard Prepara	tion Log	@Air Toxics Ltd.	Log Book #	#: <u>1858</u>
Standard ID: 1858-47 Project: Ferric Chlonde Solution Analysts M. Skidmars	Rad170	Solvent: D.T. Solvent Lot #:	, H20 N/A	
Analyst: M. Skidworc Preparation Date: 9/23/09 Expiration Date: 3/23/09 57%/09 9/23				
Procedure/Comments: Dissolve de Located in	25g of ERZC	terric cl 10+: 73297	nloride	h
10.0 mL of D.I.	Hao,			
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		4,	43/04	
Mil Sol 92 4251	04	a file	9/24/09	
Page 47 Signed Date	e de la companya del la companya de	Reviewed	Date	Rev. 8/97

Spectrophotometer Standard Preparation Log	@Air Toxics Ltd.	Log Book #: 1858
Standard ID: 1858-64	Solvent:Ha500	1/ H2O
Project: Rad 170 Arrive Solution	Solvent Lot #:	N/A
Analyst: M. SKidmore	Bolvelit Bot #.	
Preparation Date: 9130/09		
Expiration Date: 10/30/09		
Procedure/Comments:		
sulfuric acid solution:		NE CONTRACTOR DE LA CON
Slowly add G.25 ml of conc	entrated sulfuri	c acid to
	he solution c	oul, (suffuric
acid 10+:060110A)		
Amine solutions	Party painter professory or a state trademant of the Professor State	
Dissolve 1,6875 g of N, N-dime	thyl-o-phenyleu	ndiammonium
oxalate Clocated ERIA, lot: 6370		
mentioned sulfuric acid solution	. Dilute this	
to 250 ml with sulfuric acid	1 = 1./ater 111	V/V.
		^
(this is roughly 120 ml Hac	0 + 120 mL	12)04)
	\longrightarrow	
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		9/30/04
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MED 110 0 9/2/10	/¹	11
Page 64 Signed 9/30/00 Date	Reviewed	Date Rev. 8/97
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Spectrophotometer Standard Preparation Log	@Air Toxics Ltd. Log Book #: 1858
Standard ID: 1858-70 Project: Calibration Solution Rad 170 Analyst: M. Skidmore Preparation Date: 10/1/09	Solvent: D.T. Hao Solvent Lot #: V/A
Expiration Date:	· · · · · · · · · · · · · · · · · · ·
Procedure/Comments:	,
Solution A: 2 mL of Code Rad 171 (1476-984, expression = 98 mL of D.I. $H_2O = 1.145 \mu g/mL$	sp 8/6/10) (located in ER1B) with
Solution B: 2.5 mL of Solution A with 2.5 mL of	D.I. $H_2O = 0.572 \ \mu g/mL$
Solution C: 1.25 mL of Solution A with 3.75 mL	of D.I. $H_2O = 0.286 \mu g/mL$
Solution D: 0.625 mL of Solution A with 4.375 m	$mL \text{ of D.I. } H_2O = 0.143 \mu\text{g/mL}$
Solution E: 0.375 mL of Solution A with 5.625 m	
Note: Each solution was measured immediately a stable in the flask it was prepared in.	fter it was prepared. Solution A is only
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ahro. 000 0 10/5/09	C 21 : []
Page 70 Signed Date	Reviewed Date Rev. 8/97

Spectrophotometer Standard Preparation Log	@Air Toxics Ltd.	Log Book #: 1858
Standard ID: 1858-71 Project: HS ICV Rad 170 Analyst: Ly Preparation Date: 10/109 Expiration Date: 10/109	Solvent:Solvent Lot #:	Mrs
Procedure/Comments:		
Solution A: 2 mL of Code Rad 171 (1476-984, exp 8 98 mL of D.I. $H_2O = 1.145 \mu g/mL$	/6/10) (located in ER1B)	with
Solution C: 1.25 mL of Solution A with 3.75 mL of I	O.I. $H_2O = 0.286 \mu g/mL$	
Note: Each solution was measured immediately after stable in the flask it was prepared in.	it was prepared. Solutio	n A is only
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		The second secon
	71	10/105
Page 71 Signed Date	Reviewed	10/6/09 Date D. 0/07

Spectrophotomete	r Standard	Preparation Lo	og	@Air Toxics L	td. Log Book	#: 1858
Standard ID: 1858-72 Project: Fevvi C Analyst: Modern Date: Expiration Date:	Chloride drave (0/1/04 0/1/04				DI H20 N/A	
Procedure/Comments:	(,5	mil of f	erric	chlorid	e (1858-4	7)
WITH	32,5	ml of	ami	ne solu	ution (189	<u> 58 - 64)</u>
Commence of the section of the secti		的名词复数 医克克斯氏 医克克氏 电电阻 电电阻 电电阻 医电阻 医电阻 医电阻 医电阻 医电阻 电电阻 电电阻		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	Dispersacione de la companya del companya del companya de la compa	
						
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Page 72 Signed		Date		Reviewed	Date	Rev. 8/97

Shipping/ Receiving Documents



180 Blue Ravine Road, Suite B Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020 Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY:	Environmental Health & Engineering, Inc.	
ATTENTION:	Mr. Taeko Minegishi	
FAX #:	781-247-4305	
FROM:	Sample Receiving	
Workorder #:	0909559A	
# of pages (Including Cover):	4	
10/16/2000		

10/16/2009

Thank you for selecting Air Toxics Ltd. We have received your samples and have found discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to Ausha Scott at 916-985-1020.

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

In accordance with your company's contract, this account is required to have a PO that is fully executed by both parties which also covers the cost of the workorder before any data can be released. Please ensure that you have given all appropriate information to our Project Manager so that there will be no delay in reporting of the data you are requesting.

Your prompt response is appreciated.

Engineering, Inc. FROM: Environmental Health and Engineering, Inc. 117 Fourth Avenue 0909559 Needham, MA 02494-2725 AIR TOXICS Please send invoices to ATTN: Accounts Payable Please send reports to ATTN: Data Coordinator In all correspondence regarding this matter, please refer to EH&E Project # \651Z For EH & E Data Coordinator - URGENT DATA 图 ANALYTICAL METHOD/NUMBER OTHER:Time(Date/Vol. SAMPLE ID SAMPLE TYPE H2S ANNUXSIS 103148 ALR PASSIVE 103149 103150 Voided 103151 103152 103153 103177 103178 103179 103180 103181 1031BZ 6 103206 103207 103208 SK 103209 Special instructions: Standard turn around time ☐ Rush by – date/time ☐ Fax results 781-247-4305 ☐ RETURN SAMPLES Electronic transfer - datacoordinator@eheinc.com Additional report recipient mtragala e cheinc com Each signatory please return one copy of this form to the above address Manufacture Environmental Health & Engineering, Inc. Relinquished by: Received by: _______/ Date: Relinquished by: _____of (company name) _____ Received by: ______of (company name) ______Date: _____ Relinquished by: ______of (company name) ______Date: _____ Received by: ______of (company name) ______Date: _____ Lab Data Received by: ________of Environmental Health & Engineering, Inc. Date: _____ Page 1 of 4

CHAIN OF CUSTODY FORM

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SAMPLE RECEIPT SUMMARY

WORKORDER 0909559A

Client Phone Date Promised: 10/06/09 11:59 pm

Phone Date Completed: 10/14/09

Mr. Taeko Minegishi
Environmental Health & 800-825-5343
Engineering, Inc.
Fax
Po#: 16512

117 Fourth Avenue 781-247-4305 Project#: 16512 Needham, MA 02494

Sales Rep: TL Total \$: \$825.00 Logged By: MW

Fraction	Sample #	<u>Analysis</u>	Collected	Amount\$
01A	103148	ATL Applications	9/21/2009	\$50.00
02A	103149	ATL Applications	9/21/2009	\$50.00
03A	103150	ATL Applications	9/21/2009	\$50.00
04A	103152	ATL Applications	9/21/2009	\$50.00
05A	103153	ATL Applications	NA	\$50.00
06A	103177	ATL Applications	9/21/2009	\$50.00
07A	103178	ATL Applications	9/21/2009	\$50.00
07AA	103178 Lab Duplicate	ATL Applications	9/21/2009	\$0.00
08A	103179	ATL Applications	9/21/2009	\$50.00
09A	103180	ATL Applications	9/21/2009	\$50.00
10A	103181	ATL Applications	9/21/2009	\$50.00
11A	103182	ATL Applications	NA	\$50.00
12A	103206	ATL Applications	9/21/2009	\$50.00
12AA	103206 Lab Duplicate	ATL Applications	9/21/2009	\$0.00
13A	103207	ATL Applications	9/21/2009	\$50.00
14A	103208	ATL Applications	9/21/2009	\$50.00
15A	103209	ATL Applications	9/21/2009	\$50.00
16A	Lab Blank	ATL Applications	NA	\$0.00
16B	Lab Blank	ATL Applications	NA	\$0.00
17A	CCV	ATL Applications	NA	\$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.

Atlas Project Name/Profile#: CPSC Indoor Air Monitoring/13297

BILL TO: Accounts Payable

Environmental Health & Engineering, Inc.

117 Fourth Avenue Needham, MA 02494

Analysis Code: Other GC

TERMS:

Reporting Method: ATL Application #59 H2S-Radiello 170



SAMPLE RECEIPT SUMMARY Continued

Client

Phone

Date Promised:

Date Completed:

Date Received:

Fax

PO#:

Project#:

Sales Rep:

Total \$: \$ 825.00

Logged By: MW

Fraction

Sample #

Analysis

Collected

Amount\$

Misc. Charges eCVP (15) @ \$5.00 each.

\$75.00

Note:

Samples received after 3 P.M. PST are considered to be received on the following work day.

Atlas Project Name/Profile#: CPSC Indoor Air Monitoring/13297

BILL TO:

Accounts Payable

Environmental Health & Engineering, Inc.

117 Fourth Avenue

Needham, MA 02494

Analysis Code: Other GC

TERMS:

Reporting Method: ATL Application #59 H2S-Radiello 170

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

Other Records



Method: ATL Application #59 H2S-Radiello 170

CAS Number	Compound	Rpt. Limit (ug)	
7783-06-4	Hydrogen Sulfide	1.2	

@Air Toxics Ltd.

	A D	т	M O	DATA REVIEW CHECKLIST Work Order #: 0909559 A
$\mathbf{A_1}$	A₂ R □ ☑		M Q □	Analysis/Penoving vs. Project Profile/SOP requirements checked (i.e. 1000/ Dune I Flor to MDI etc.)
				Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc) The final report has the correct reporting list, special units, and header info.
			0	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
	EPA		<i>6</i> 9 0	Sample Discrepancy Report (SDR) is completed
				Corrective Action issued - #
				Unusual circumstances have been documented in the notes section below
			LU	MEN validation report present and initialed CIRCLE (YES / NO)
			0	Lab Blank, CCV, LCS and DUP met QC criteria
				Hold time is met for all samples
	□ Œ		10 0	Appropriate data qualifier flags are applied
	(⊡^			Manual integrations for samples and QC are properly documented
				Samples analyzed within the project or method specific clock
	四			Retention times have been verified
			_ 9	Appropriate ICAL(s) included
				At least one result per sample is verified against the target quant sheets/raw data
				Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can
m		_		pressurization(s))
				Correct amount of sample analyzed (i.e. sample not over-diluted) Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
				TICs resemble reference spectra
				TICs between duplicate samples are consistent
			D O	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
				Data for multiple analyses of sample(s) has been evaluated for comparability of results
	Q′			Special units for all samples in the final report are correctly calculated
	凼		a —	Manually entered results checked (i.e. TPH/NMOC)
				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
				Chain of Custody scanned correctly
				Verify sample id's vs. chain of custody Date MDL(s) performed per instrument(s)
				Samples pressurized w/ appropriate gas (N ₂ or He) Cother (i.e. Tedlar bag, cartridge, sorbent)
				Final pressure consistent with canister size (6L vs. 1L)
	1 12 A			Verify receipt pressures Verify canister ID #'s
ш			4	Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
			0	MDL date(s) present for all instruments utilized
			1000	Client LUMEN report reviewed for accuracy and completeness
Madana	4-11	,		
	(10 inch Du			amples with QA/QC problems, Blanks with positive hits, narratives, etc.) ARPD=25%
A/R:	- Duy	<u> </u>	1.	De (O'
	1214	2	124/4	A RPD-1890 "1690
M/Q:		-		
	A	1/A	•	R/T M Q
(A			z view/Date	
A_1 :	one soon≢ AS-SeE silve.			R:Mil-3227 W 15114109
A_2 :				<u>T:</u>

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 02/20/09 Note (2): Management reviewer and reporting reviewer must be separate individuals.